

SELVYENSKIY, Y.D.; NIKOLAYEV, D.A.; SHALIGIN, V.A.; TATARINSKIY, V.S.

"Über den optimalen Druck bei der Rektifikation"

Third Working Conference on Stable Isotopes, 28 October to 2 November 1963, Leipzig.

SELYAK, M. S., Engr

PA 26/49T15

USSR/Electricity
Circuits, Ground

Aug 48

"Use of APV to Locate a Grounded Line in Six-
Kilowatt Networks," M. S. Selyak, Engr, 1 p

"Elek Stants" Vol XIX, No 8

Results of tests conducted at the Mogilevsk sub-
station. Subject apparatus was homemade, but has
given excellent results in tracing short circuits.
Editors urge its adoption because it is easy to
construct and use.

26/49T15

SHLYAKH, I. V.

Dissertation: "The Effect of the Structure of Aliphatic Ketones on the Rate of Their Catalytic Hydrogenation to Secondary Alcohols." Cand Chem Sci, State Inst of Applied Chemistry, Leningrad, 1953. Referativnyi Zhurnal--Khimiya, Moscow, No 7, Apr 54.

SO: SUN 284, 26 Nov 1954

62231-65 EWA(b)-2/EWA(j)/EWT(1) JK
 ACCESSION NR: AP5021669

UR/0080/65/038/008/1842/1847
 547.584

AUTHOR: Selyakh, I. V.⁴⁴; Podlineva, M. P.⁴⁴

TITLE: Development of a preparative method for sodium 3,6-endooxyhexahydrophthalate ("Endotal")

SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 8, 1965, 1842-1847

TOPIC TAGS: ⁴⁴defoliant agent, diene synthesis, chemical reduction, hydrogenation, phthalic acid, phthalic anhydride, bicyclic heterocyclic compound, oxabicyclic compound, catalytic hydrogenation

ABSTRACT: The exo-cis isomer of sodium 3,6-endooxyhexahydrophthalate ("endotal") is used as a defoliant for cotton plants. It is prepared in two steps: 1) Diels-Alder addition of maleic anhydride to furan, and 2) catalytic hydrogenation of the adduct. The difficulties encountered in the synthesis are associated with caking of the adduct in the absence of a solvent and with the conditions of hydrogenation. This work was aimed at the selection of a suitable solvent for the Diels-Alder addition and the development of both the batch method of hydrogenation and continuous reduction in a suspended catalyst layer. Previous work had shown that the physiologically active

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ACCESSION NR: AP5021669

exo-isomer of the adduct is obtained only in nonpolar solvents. While satisfactory results were obtained by using benzene as solvent, the most advantageous solvent was found to be furan. The reaction time is reduced in furan; recycling of the solvent raises the yield from 87% to 98%. It was found that 5-10% is a suitable concentration of adduct for batch reduction with Raney nickel. A 3-4% excess of alkali must be maintained to prevent the formation of nickel salts. The best results were obtained with Ni/C (15% Ni). Raising the temperature to 600 cuts the reaction time by one-half. In continuous hydrogenation of the adduct in a fluidized catalyst bed it was found that the degree of hydrogenation depends on the feed rate of the hydrogenated solution. Raising the temperature to 550 makes it possible to increase the feed rate by a factor of 4. The anhydride of 3,6-endooxytetrahydrophthalic acid was found to be stable at 20-800. Orig. art. has: 3 tables and 3 figures. [VS]

ASSOCIATION: none

SUBMITTED: 29Jun63

ENCL: 00

SUB CODE: OC, CB

NO REF SOV: 002

OTHER: 003

ATD PRESS: 4077

Card 2/2

SELYAKH, I.V.; DOLGOV, B.N.

Effect of the structure of aliphatic ketones on the rate
of their catalytic hydrogenation to secondary alcohols.
Zhur.prikl.khim. 38 no.9:2034-2038 S '65.

(MIRA 18:11)

SELYAKH, I.V.; DOLGOV, B.N.

Effect of a medium on the rate of hydrogenation of aliphatic
ketones. Zhur. prikl. khim. 38 no. 10:2374-2377 0 '65.
(MIRA 18:12)

MALANCHEN, L.; SELIAKOV, L., zamestitel' general'nogo konstruktora
samoleta TU-134; SHENGARDT, A., inzh.; KALINA, A., letchik

The Tu-134 airplane. Grazhd. av. 21 no.12:20-21 D '64.
(MIRA 18:12)

1. Korrespondent zhurnala "Grazhdanskaya aviatsiya" (for
Malanchev).

BRAYNINA, Z.Z.; MIKHEYEV, M.N.; RUDOMANOV, P.G.; SELYAKHINA, V.P.

Studying the aging of silicon-manganese bronze by measurements of magnetic susceptibility and electric resistance. Fiz. met. i metalloved. 10 no.3:490-492 S '60. (MIRA 13:10)

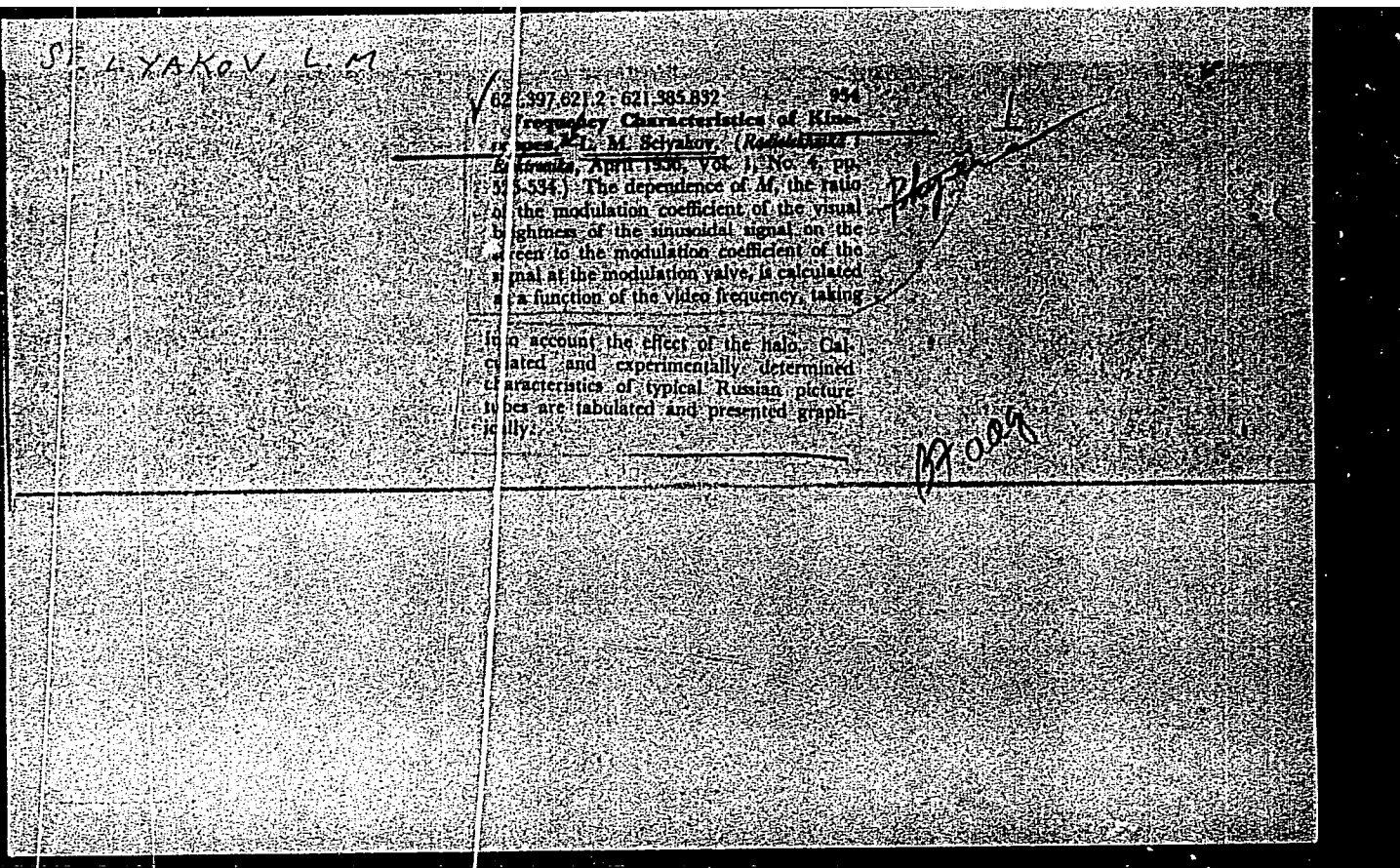
1. Institut fiziki metallov AN SSSR.
(Bronze—Testing)

SELYAKOV, L.M.

SELYAKOV, L.M.--"Frequency and Transition Characteristics of Television Receiving Tubes with Account Being Taken of the Halo Phenomenon." *(Dissertations For Degrees In Science And Engineering At USSR, Higher Educational Institutions). (34). Min Higher Education USSR, Moscow Order of Lenin Power Engineering Inst imeni V.M. Molotov, Moscow, 1955

SO: Knizhnaya Letopis' No. 34, 20 August 1955

* For the Degree of Doctor of Technical Sciences



SELYAKOV, L. M)

Aperture distortions. Radio no.10:34-36 '56.

(MLRA 9:11)

(Television--Receivers and reception)

107-57-4-30/54

AUTHOR: Selyakov, I., Candidate of Technical Sciences (Taganrog)

TITLE: Correction of Aperture Distortion (Korrektziya aperturnykh iskazheniy)

PERIODICAL: Radio, 1957, Nr 4, pp 37-40 (USSR)

ABSTRACT: Physical phenomena and methods of determining aperture distortion were examined in the "Radio" journal, 1956, Nr 10. The purpose of this article is to show for which kinescopes and under which conditions the aperture distortion should be taken into account. Aperture distortion in transfer characteristics is manifested by a blurring strip when a black-white border is reproduced. Blurring strip data for 40LK1B and 18LK15 kinescopes, determined in a laboratory, are supplied. Resolution of the human eye is defined. It is equal to the angle of two minutes. It has been found that aperture distortion is negligible with a 40LK1B kinescope. Type 18LK15 kinescope has a considerable aperture distortion, and an anti-aperture correction is necessary in this case. The correction is also necessary for types 23LK1B and 31LK2B kinescopes. Aperture distortion is still higher in TV transmitting tubes, particularly in an image iconoscope. Aperture distortion is manifested by the fact that the signal magnitude decreases as the video frequency increases. A circuit or a multistage unit

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107-57-4-30/54

Correction of Aperture Distortion

can be used to correct the aperture distortion; the frequency characteristic of such a corrective device should have a rise on the high video frequencies. This rise may exceed six to eight times the amplification on lower frequencies while the phase characteristic of the corrective device should be linear. It is more economical to introduce the anti-aperture correction in the TV transmitter. At the present time, such a correction exists only in the movie channels of the Moscow TV Center. The "Avangard" TV set also has an anti-aperture correction in its final stages. G. V. Braude, Doctor of Technical Sciences, and his co-workers have performed extensive research on anti-aperture correction. During 1954-1956, Braude's group did considerable work at the Moscow TV Center, introducing the corrective measures. Two corrective circuits are examined in the article: (1) a simple LCR circuit in the grid; it is used in the first stage of a video amplifier or in the anode detector; (2) a T-circuit which can be used in the final stage of a video amplifier in combination with other circuits in the preceding stages. Numerical examples of calculation are given to illustrate both circuits. Instructions for alignment of the corrective devices in a TV set are supplied. As a result of the application of the above anti-aperture

Card 2/3

Selyakov, L.

107-57-6-39/57

AUTHOR: Selyakov, L., Candidate of Technical Sciences (Taganrog)

TITLE: Improving Definition at the Screen Edges
(Povysheniye chetkosti na krayakh ekrana)

PERIODICAL: Radio, 1957, Nr 6, pp 45-47 (USSR)

ABSTRACT: Video correction and anti-aperture correction are used for improving the definition of a TV picture. The best TV sets have a definition of 500-550 lines in the center determined on the test pattern 0249. However, all TV sets using kinescopes with electromagnetic focusing have much higher definition in the center than around the edges of the screen. Irregular definition over the screen is due to the fact that the light spot is not uniformly focused at all points of the screen. The causes of defocusing are: screen curvature, non-uniformity of the deflecting field, fringe fields in the deflecting system, etc. The screen curvature is the major cause. As a result, each line is wider and its maximum brightness is lower toward the edge of the screen. As a corrective measure, an addition of 2% alternating focusing current is suggested. An additional focusing coil was placed close to the fundamental focusing coil in a Soviet-make TV set, "Temp." A 3-tube correction circuit necessary for generation of parabolic shape current has been developed. Two tubes 6N8S and one tube 6P6S

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107-57-6-39/57

Improving Definition at the Screen Edges

were used. Field-frequency and horizontal-frequency parabolic voltages were generated. A circuit diagram, parts data, and instructions for building, alignment, and adjustments of the correction unit are given. Tests have shown that lines widen only by 10% or less with this correction system in action. Electrostatic focusing kinescopes, such as 35LK2B and 43LK2B, can be corrected in a similar way, the only difference being that parabolic voltages should be applied instead of parabolic currents.

There are five figures in the article.

AVAILABLE: Library of Congress

Card 2/2

SELYAKOV, L.M.; FABRISTOV, Yu.V., red.

[Aperture distortions and their correction; textbook for a course on amplifiers, indicator systems, and television] Aperturnye iska-zheniia i ikh korrektsiia; posobie dlia kursa usilitelei, indikatornykh ustroistv i televideniia. Taganrog, Taganrogskii radiotekhnicheskii in-t, 1960. 74 p. (MIRA 14:10)
(Television—Handbooks, manuals, etc.)

SELYAKOV, L., kand.tokhn.nauk

Picture contrast on a television picture tube. Radio no.8:41-42
Ag '61. (MIRA 14:10)

(Television—Picture tubes)

NAGLER, I.Sh.; SELYUKHOV, S.V.

Changing the arrangement of brushes on the bottom rollers of
a degreasing machine. Sbor. rats. predl. vnedr. v proizv.
no.2:24-25 '61. (MIRA 14:7)
(Tinning—Equipment and supplies)

POLYAKOV, Pavel Ivanovich, kand.tekhn.nauk; SEL'YUKOV, Leonid Ul'yanovich, kand.tekhn.nauk; SHCHIRIN, Sergey Il'ich, kand.tekhn.nauk; PANSHIN, P.Ye., inzh., nauchnyy red.; DENISOV, Yu.M., red.izd-va; VOLCHOK, K.M., tekhn.red.; PUL'KINA, Ye.A., tekhn.red.

[Geodetic measurements made during the process of construction in industrial and civil engineering; manual for construction engineers]
Geodezicheskie razbivochnye raboty v promyshlennom i grazhdanskom stroitel'stve; spravochnoe posobie dlia inzhenerov-stroitelei. Lenin-grad, Gos.izd-vo lit-ry po stroit., arkhitekt. i stroit.materialam, 1959.
176 p. (MIRA 13:6)

(Surveying) (Building) (Civil engineering)

GINCHEN, A.S.; KRASHINSKY, V.G.; MAKHOV, N.G.

Investigating optical properties of materials treated by thermal radiation. Inzh.-fiz. zhurn. 8 no.6:742-746 Je '85. (MIRA 18:7)

1. Tekhnologicheskij institut pishchevoy promyshlennosti, Moskva.

DAMARINA, G.V., GRISHCHENKO, N.V., PEN'KOV, V.Ya., SELZUKOV, V.P.;
POPOV, V.D.

Efficiency of the group-bonus wage system for integrated brigades
in stopes. Nauch. trudy KNIUI no.14:427-438 '64.

Ways of improving the overall organization of work in Karaganda
Basin stopes. Ibid.:455-464 (MIRA 18:4)

PESIN, N.Ya.; MASTER, A.A.; SEL'YUKOV, V.P.; EYDEL'SHTEYN, I.A.; GERT, A.P.

Analysis of the degree of difficulty in development operations
in Karaganda Basin mines. Nauch. trudy KNIUI no.14:464-480 '64.
(MIRA 18:4)

SELYUKOV, YU. Z. Cand Tech Sci — (diss) "Investigation of vibration-stability of the transverse planing machine," Moscow, 1960, 14 pp, 180 cop. (Moscow Machine Instruments Institute im I. V. Stalin) (KL, 42-60, 114)

KUDINOV, V.A.; SELDUKOV, Yu.Z.

Preventing vibrations of a transverse planing machine. Stan. 1
instr. 31 no.5:7-10 My '60. (MIRA 14:5)
(Planing machines—Vibration)

SFLYUKOV, Yu.Z., ZHED', V.P.

Designs of self-centering chucks. Stan. i instr. 36 no.7:
20-22 J1 '65. (MIRA 18:8)

SELYUKOV, Yu. Z.

S/122/61/000/001/015/015
A161/A130

AUTHOR: None given

TITLE: Authors' abstracts of dissertations

PERIODICAL: Vestnik mashinostroyeniya, no. 1, 1961, 86 - 87

TEXT: Brief abstract of eleven dissertations are published, the two first for the degree of Doctor of Technical Sciences, and nine for the degree of Candidate of Technical Sciences. 1) N. M. Karelin, of the Moskovskiy stankoinstrumentalnyy institut imeni I. V. Stalina (Moscow Institute of Machine Tools and Instruments im. I. V. Stalin): "Machining parts with curved cross section without the use of tracers". The author has developed a method for plotting kinematic system diagrams for machine tool attachments for machining round parts with the outline traced by epicycloids and hypocycloids or their equidistants. 2) B. A. Morozov, Moskovskoye Vyssheye tekhnicheskoye uchilishche imeni N. E. Baumana (Moscow School of Higher Technical Education imeni N. E. Bauman): "Study of the work capacity of machines and equipment of metallurgical plant shops", concerning design improvement. The author has developed a method for comprehensive evaluation of the work capacity of machines. It permits the selection of

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A161/A130

Authors' abstracts of dissertations . . .

optimum designs and determining the engineering calculation data in a short time. 3) Yu. Z. Selyukov of the Moscow Institute of Machine Tools and Instruments imeni Stalin: "Investigation of the vibration resistance of a shaping machine". The author has conducted experiments and gives recommendations. 4) M. B. Paley, of the Moscow Institute of Machine Tools and Instruments im. Stalin: "Investigation of the milling machine drive". The work concerns gear and belt drive for a milling machine spindle and presents the results of theoretical and experimental studies of the rotation unevenness, and a calculation method for the flywheel inertia moment. The specific features of the belt drive are analyzed. 5) Lu Ch'ao-tseng, of the Moscow institute of Machine Tools and Instruments im. Stalin: "Study of the adhesion and friction phenomena between flat steel surfaces (gage blocks)". The author studied the adhesion and friction forces between Johanson gage blocks in function of the oil film depth, roughness and oil properties; determined the real oil film depth after rubbing-in, the effect of load, the adhesive capacity variation with wear, and investigated the phenomenon of oil separation from inside metal (gage blocks). 6) D. D. Shevchenko of Institut mekhaniki AN USSR (Institute of Mechanics AS UkrSSR): "A study of the contact of a rough surface in the process of pressing into plastic medium". The work concerns the ap-

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Authors' abstracts of dissertations

proach of a hard rough surface to a smooth surface of plastic medium under pressure. 7) B. N. Bobrynin of Gor'kovskiy politekhnicheskii institut imeni A. A. Zhdanova (Gor'kiy Polytechnic Institut imeni A. A. Zhdanov): "Study of the stamping trimming-punching process in laminar and fibrous sheet plastics". The study concerns mainly the technology of process without heating. Recommendations are given for the fabrication of parts of different types. 8) R. A. Mozniker of the Institute of Mechanics AS UkrSSR: "Vibration test installations with electromagnetic exciters", concerning the rational use of such units, their peculiarities in different operation conditions. 9) Yeh Mu-tsen of the Moscow Institute of Machine Tools and Instruments im. Stalin: "Experimental and theoretical study of the strength of broaches taking into account the concentration of internal stresses". A new method is suggested for the calculation of stress concentration. 10) Vang Ch'ih-hao of the Moscow Institute of Machine Tools and Instruments im. Stalin: "Investigation of chatter in gear cutting machine". Chatter in milling straight-tooth gears is investigated, and a theoretical and empirical comparison of different milling methods is presented. The effect of the design of machine elements on chatter is analyzed. 11) Wang Tsen-ta of the Moscow Institute of Machine Tools and Instruments im. Stalin: "A study of the motion stability of

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S/1.2/61/000/001/015/015
A16 A130

Authors' abstracts of dissertation

work elements of hydraulically driven machine tools". The work presents a theoretical analysis and experimental data.

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1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																										COMMON VARIANTS INDEX																									
SELYUKOVA M N 64 17 A simplified colorimetric method of determining carbohydrates in tobacco as an index of its quality. M. P. Pyatnitskii and M. N. Selyukova. <i>Vsesoyuz. Nauch.-Issledovatel. Inst. Tabach. Makhovoch. Prom.</i> No. 140, 57-75 (in English, 75-6) (1939).—A modified Folin and Wu method for detg. carbohydrates is described in detail. The photoelectric colorimeter was used. It is claimed that 40 samples of tobacco could be tested for carbohydrates in 6 hrs. J. S. Joffe																																																			
ASR-SLA METALLURGICAL LITERATURE CLASSIFICATION																																																			
1ST ORDER 2ND ORDER 3RD ORDER 4TH ORDER																																																			

SELYUKOVA, M. N.

"Research on the Condition of Enzymatic Hydrolysis of Proteins During the Derivation of Martenovskiy Peptones." Cand Biol Sci, Rostov State U imeni V. M. Molotov, Rostov-na-Donu, 1954. (KL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: SUM No. 556, 24 Jun 55

SELYUKOVA, M.N.

FYATNITSKIY, N.P., SELYUKOVA, M.N.

Effect of nicotinic acid on pepsin and hydrochloric acid secretion
in the gastric juice in dog [with summary in English]. Vop. pit 17
no. 4:20-24 Je-Ag '58 (MIRA 11:7)

1. Iz kafedry biokhimii (zav. prof. N.P. Pyatnitskiy) Kubanskogo
meditsinskogo instituta, Krasnodar.

(GASTRIC JUICE,

acidity & pepsin content, eff. of nicotinic acid in
dogs (Rus))

(NICOTINIC ACID, effects,

on gastric juice hydrochloric acid & pepsin contents
in dogs (Rus))

KRAYNEV, S.I.; PYATNITSKIY, N.P.; SELYUKOVA, M.N.

Catalase activity and osmotic resistance of erythrocytes in preserved
human blood. Probl. gemat. i perel. krovi 5 no. 5:39-44 My '60.

(MIRA 14:1)

(ERYTHROCYTES) (CATALASE) (BLOOD—COLLECTION AND PRESERVATION)

PYATNITSKIY, N.P.; SELYUKOVA, M.N.

Effect of curds, and sour and fresh milk on the secretion of chymotrypsin
and sodium carbonate in the pancreatic juice of dogs. Vop. pit. 19
no.2:45-48 Mr-Apr '60. (MIRA 14:7)

1. Iz kafedry biokhimii (zav. - prof. N.P.Pyatnitskiy) Kubanskogo
meditsinskogo instituta, Krasnodar.
(MILK) (CHYMOTRYPSIN) (SODIUM CARBONATE)
(PANCREAS--SECRETIONS)

DEVIS, Dzh.F. [Davies, J.F.]; SELYUKOVA, V.A. [translator]

The lithium and beryllium pegmatites of southeastern Manitoba
(from "The Canad. Mining and Metallurgical Bulletin," 51, No.555,
1958). Biul.nauch.-tekh.inform.VIMS no.1:15-18 '60. (MIRA 15:5)

1. Otdel nauchno-tekhicheskoy informatsii Vsesoyuznogo nauchno-
issledovatel'skogo instituta mineral'nogo syr'ya.
(Manitoba--Pegmatites)

DELICHOVA, V. V.

Dissertation: "An Investigation of the Vulcanization of Sodium Butadiene Rubber in the Presence of Dibenzotriazolesulfonide." Cand Chem Sci, Moscow Institute of Fine Chemical Technology imeni M. V. Lomonosov, 21 Jun 54. (Vostochnaya Moskva, Moscow, 21 Jun 54)

SO: Jun 54, 45 Dec 1954

SELYUKOVA, V.V.

✓The theory of vulcanization and the action of accelerators. CH
B. A. Dogadkin, V. Selyukova, Z. Tarasova, A. Dobromy-
slova, M. Pel'shteyn, and M. Kaplunov. *Colloid J.*
(U.S.S.R.) 17, 199-210 (1955) (Engl. translation). See
C.A. 49, 14300g. H. L. H.

2 m37

⑤

AA
m37

SELYUKOVA, V.N.

1. Theory of vulcanization and the action of accelerators.
B. A. Dogadkin, V. Selyukova, Z. Tarasova, A. Dobromy-
slava, M. Fed'shchik and M. Golunov (Inst. Fine Chem.
Technol., Moscow). *Kolloid Zhur.* 17, 215-20 (1955); cf.
CA 48, 1037a. Ni-butadiene rubber (I) was vulcanized
by heating at 143° with (e.g., 5%) benzothiazolyl disulfide
(II) in toluene in N₂, e.g., after heating for 9 hrs., the mol.
wt. was 300,000 when the initial mol. wt. was 100,000, and
the S concn. was 0.1%; about 40% of the initial II was de-
composed, and about 0.5 the decompd. II was transformed
into mercaptobenzothiazole. An analogous vulcanization
in the solid state gave, in 5 hrs., a product with elasticity
modulus E of 5 kg./sq. cm. The rate of stress relaxation of
these vulcanizates was increased by substituting S for a part
of II; this showed that, in the reaction between I and II,
more stable C—C bonds form, while the reaction between I
and S results in less stable —S—S— bonds. The no. of
bonds produced by 1 mol. of II attached to I was 1.1-5.4.
The mechanism of this bond formation is discussed. Heat-
ing of isoprene (I) with II at 125° caused about 30% poly-
merization of III. When I was vulcanized with a mixt. of S
and II, the rate of reaction increased linearly with the ratio
of II to I. The increase of E with the S content of the vul-
canizate was greater, the greater the proportion of the 1,4-
isomer in I. The S of the vulcanizate, by using S², was
shown to exchange with the S in II or with free S. The reac-
tions of the α -CH₂ group of rubber chains are very important
for vulcanization. J. J. Bikerman

(5)

and Sci. Res. Inst. Tire Inst.

PRAVEINIKOV, N.F.; CHLOVSKII, N.I.; SELYUNIN, A.N.

Possibilities of injecting liquefied gases in different areas
of the Romashkino field with a view to increasing petroleum
recovery and the level of petroleum production. Trudy VNI
no. 10-11-2-16 '63 (MIRA 1967)

Selyumina, T.N.

430. REFORMING OF GAS OIL WITH A CARBON CATALYST. *Kolchakov, N.Y., Selyumina, T.N., and Kholit, K.L. (Univ. from Vsesoyuz. Inst. Khim., Moscow), 1956 (3), 12453. Reformat. of Borislav gas oil and a distillation fraction obtained from it was carried out with activated carbon prepared by the method of Sanford and Friedman. The optimum reforming temperature was found to be 540-570° and the contact time for the vapours 9-11 seconds. The catalyst was regenerated with superheated steam at 700-710°. Reforming of the gas oil fraction, boiling at 90-150°, gave a product containing mostly aromatic hydrocarbons, whose octane number was*

22-26 points above that of the feed stock.

G.A.

SECRET, ..

VINOKUR, M., inzhener tekhninspektzii (Kiyev); CHERENIYENKO, N.;
SELYUMINOV, A., tekhnik radiouzla (Shumyachskiy rayon, Smolenskoy
oblasti).

Let us complete the introduction of radio facilities in villages.
Radio no.8:4-5 Ag.'54. (MIRA 7:8)

1. Zamestitel' nachal'nika DRTS (for Chereniyenko)
(Radio)

6.8000 (1063, 1159)

29577
S/049/61/000/005/010/013
D201/D306

AUTHORS: Rykunov, L. N., and Selyuminov, S.D.

TITLE: Pulse generator for excitation of piezoelectric radiators

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya geofizicheskaya, no. 5, 1961, 730-731

TEXT: The quality of pulses produced by a piezoelectric radiator is determined by the level of residual transient oscillations. This level is determined again by two factors: the pressure of harmonics and upsetting of the conditions of damping of self-oscillation after the excitation pulse has been removed. In the piezoelectric pulse generator, as described by L. N. Rykunov and V. D. Feofilaktov (Ref. 1: Izv. AN SSSR, ser. geofiz., no. 2, 1961), the harmonics are adequately suppressed, but the damping of transients depends very much on the losses in the radiator and since these losses vary in practice to a considerable extent, need arose for the design of a generator producing trapezoidal pulses, for which

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Pulse generator for ...

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D201/D306

it was found that the amplitude of transients was a minimum. The description of such a pulse generator is given in the present article. The generator consists of the following stages: 1) A blocking oscillator with a cathode follower output, double triode 6H9C (6N9S) permalloy case transformer, 30 turns in primary and secondary. Pulse length 3×10^{-6} sec; amplitude 0 - 160 V, minimum rep. frequency 100 kc/s; 2) A cathode-coupled one-shot multi-vibrator, double triode 6H8C (6N8S); duration of output pulse 3×10^{-6} to 160×15^{-6} sec; 3) Amplifier-limiter, pentode 6Ж4 (6Zh4); 4) Phase inverter, 1/2 6N8S; 5) Cathode follower, 1/2 6N8S with differentiating network in the cathode cct ($0.01 \mu\text{F}$ and 100 and 200 k ohm resistors). The 100 k ohm variable resistance permits one to vary the trailing edge of amplitude of the O/P pulse; 6) Output stage, pentode 6Y-50 (GU-50), output pulse amplitude 850 V, acting also as a limiter, forming thus a trapezoidal pulse. Experiments in the use of the above generator for exciting a cubic block of dihydrophosphate of ammonium have shown that the amplitude of

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S/049/61/000/005/010/013
D201/D306

Pulse generator for ...

transients depends on the ratio of the amplitudes of leading and trailing edges of pulses. For the best ratio the amplitude of transients is less than 7%. The authors acknowledge the help of Yu. F. Vasil'yev and of S. A. Fedorov. There are 3 figures and 2 Soviet-bloc references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University im. M. V. Lomonosov)

SUBMITTED: November 24, 1960

X

Card 3/3

SELYUNINOV, V.

Planning and accounting must answer the interests of production.
Mor. flot 18 no. 6:9-10 Ja '58. (MIRA 11:7)

1. Nachal'nik sluzhby promyshlennykh predpriyatiy Kaspiyskogo
parokhodstva.
(Shipyards)

SELYUNIN, A.; KOSOV, V.; SHCHERBAK, B.

Production of local building materials is growing. Sel'.stroil. 13
no.2:13 F '59. (MIRA 12:3)

Urzhumskiy RSPSR
1. Nachal'nik Urzhumskogo rayonnogo otдела po stroitel'stvu v kolkho-
zakh (for Selyunin). 2. Nachal'nik Lyubinskoy mezhkolkhoznoy stroitel'-
noy kontory Omskoy oblasti (for Kosov). 3. Glavnyy inzhener oblastnogo
upravleniya po stroitel'stvu v kolkhozakh Ul'yanovskoy oblasti (for
Shcherbak).

(Building materials)

GATTENBERGER, Yu.P.; DORONHOV, O.I.; ORLOV, V.S.; SELYUNIN, A.N.

Estimating petroleum production on the Izvil oil field. Nauch.-tekhn.
sbor. po dob. nefli no.24:90-94 '64. (MIRA 17:10)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

DOROKHOV, O.I.; SULTANOV, S.A.; SELYUNIN, A.N.; POLUYAN, I.G.

Concerning the Bavly experiment. Geol. nefti i gaza 9 no.8:52-3 of
cover Ag '65. (MIRA 18:3)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut;
Tatarskiy neftyancy nauchno-issledovatel'skiy institut, g. Bugul'ma;
Gosnaukstat i Ob'yedineniye Bavlyneft'.

AFANAS'YEVA, A.V.; LAKOVSKIY, M.L.; SEL'YUNIN, A.N.

Developing and introducing a method for injecting liquefied gases into one of the areas of the Romashkino oil field in order to increase oil reservoir production. Nauch.-tekhn. sbor. po dob. nefti no.24:146-150 '64. (MIRA 17:10)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

KEL'TSEV, N.V.; SEL'YUNINA, T.N.; KHALIF, A.I.

Reforming of casing-head gasolines using a carbon catalyst. Gaz.
prom.no.3:35-38 Mr '56. (MLRA 10:1)
(Cracking process) (Gasoline)
(Carbon, Activated)

MUSHIN, A.Z.; SELYUNINA, T.N.

Additive for thickening water in hydraulic fracturing in injection
wells. Trudy VNII no.35:40-49 '61. (MIRA 15:1)
(Oil wells--Hydraulic fracturing)

MUSHIN, A.Z.; SEL'YUNINA, T.N.; USACHEV, P.M.; LESIK, N.P.

Results of laboratory studies and field tests of asphaltite
as a fluid loss additive for hydraulic fracturing. Neft. khoz.
40 no.7:43-49 J1 '62. (MIRA 17:3)

SELYUNIN, V.

The road to ores. Na stroi.Ros. 3 no.8:31-33 Ag '62.

(MIRA 15:12)

1. Spetsial'nyy korrespondent zhurnala "Na stroykakh Rossii."
(Kursk Magnetic Anomaly—Iron mines and mining)

SELYUNIN, V.

Pipe from Chelyabinsk. Na stroi. Ros. 4 no.5:2-3 My '63.
(MIRA 16:5)

1. Spetsial'nyy korrespondent zhurnala "Na stroykakh Rossii".
(Chelyabinsk--Industrial plants--Design and construction)
(Pipe--Welding)

SELYUTIN, A.A., inzh.; TYUMENEVA, S.T., inzh., red.; GVIRTS, V.L., tekhn. red.

[Device for controlling the profile of screws and gear cutters with large angle feed] Prispособlenie dlia kontrolya profilis cherviakov i chevriachnykh frez s bol'shimi uglami pod'ema. Leningrad, 1955. 9 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Informatsionno-tekhnicheskii listok, no.109(797))
(Screw-cutting machines)

SELYUTIN, Azriel' Abramovich; SMIRNOV, A.S., nauchnyy red.; SHAURAK,
Ye.N., red.; SHISHKOVA, L.M., tekhn.red.

[Tables for the division of a circle into 2 to 220 parts;
in grades, minutes, seconds] Tablitsy deleniia okruzhnosti na
chisla ot 2 do 220; v gradusakh, minutakh, sekundakh. Lenin-
grad, Gos.soiuznoe izd-vo sudostroitel.promyshl., 1959. 181 p.
(MIRA 13:2)

(Mathematics--Tables, etc.) (Circle)

SELYUTIN, Abram Moiseyevich; BESPAL'CHIKOVA, Tat'yana Aleksandrovna;
KUTAY, A.K., kand. tekhn. nauk, retsenzent; NAUMOV, Ye.P.,
inzh., red.; LEYKINA, T.L., red. izd-va; SHCHETININA, L.V.,
tekhn. red.

[Handbook on tolerances and fits] Spravochnik po dopuskam i po-
sadam. Moskva, Mashgiz, 1962. 143 p. (MIRA 15:8)
(Tolerance (Engineering))

AUTHORS: Selyutin, A.S. and Tikhomirov, N.A. 136-58-3-5/21

TITLE: The MS-2 High-Intensity Magnetic Separator for Concentrating Weakly Magnetic Ores and Materials. (Magnitnyy separator vysokoy intensivnosti dlya obogashcheniya slabomagnitnykh rud i materialov MS-2)

PERIODICAL: Tsvetnyye Metally. 1958. Nr.3 pp. 23 - 29 (U.S.S.R.)

ABSTRACT: The type MS-2 high-intensity electromagnetic separator (figs.1, 2) described, was developed by the design department of the imeni Kotlyakov engineering works in Leningrad (Leningradskiy mashinostroitel'nyy zavod imeni Kotlyakova) from a proposal by A.M. Volikov. A.I. Kirichenko took part in the design work. The separator is of the double-disc type and is rated at 0.2-1.0 tonnes/hour, the limiting specific magnetic susceptibility of the separated material being 10×10^{-6} . After listing technical data, the authors consider the special features of the separator. These include: blockage-free feeding system; separation of the strongly magnetic fraction by a magnetic system located in the feeder drum; vibrating trough conveyor leading to improved distribution of material and separation; a screen between the feeder and trough to retain oversize material; cast cores made in one piece with the yoke, reducing magnetic resistance; pole pieces of the steel yoke of the magnetic system direct and concentrate the field (up to 16,000 Oersted and over); simplified (worm) drive for the discs; counter-weighted easily charged hair brushes for

Card 1/2

The MS-2 High-Intensity Magnetic Separator for Concentrating Weakly Magnetic Ores and Materials. 136-58-3-5/21

removing the magnetic fraction from the disc; hermetical sealing to prevent dust nuisance. These features showed to good advantage in comparative tests against an MSI-3 "Leningrad" separator at the Skopinskiy beneficiation works. The productivity of the MS-2 was 666.0 and of the "Leningrad" 200.0kg/hr. The authors enumerate the advantages of the former over the latter and give details of test results (table 2) at the same works with the MS-2 separator and minerals so weakly magnetic as to be untreatable with the "Leningrad" and other difficult materials. These tests lasted 9th - 19th April, 1957. There are 2 figures and 2 tables.

ASSOCIATION: Zavod Imeni Kotlyakova (Imeni Kotlyakov Works)

AVAILABLE: Library of Congress.

1. Minerals-Separation-Equipment 2. Ores-Purification-Equipment

Card 2/2

BASHTOVOY, I.A.; GRITSENKO, A.M.; KUCHERENKO, S.K.; MIKHAYLENKO, F.K.;
SELYUTIN, I.A.

Drawing rock pillars in deepening mine shafts.
Shor.rats.predl.vnedr.v proizvod. no.1:5-6 '61.

(MIRA 14:7)

1. Trest "Dzerzhinskruuda", rudnik im. Kirova.
(Mining engineering)

SELYUTIN, N. P.

SELYUTIN, N. P. (Chief Veterinarian, Vadinsk rayon, Penzen oblast.) A case of illness caused by Rhinostomus in horses.

So: Veterinariya; 23; 5-6; May/June 1946; Uncl.
TABCON

PASTUKHOV, A.I.; KLEYN, A.I.; ANDREYEV, T.V.; MAZUN, A.I.;
Prinimali uchastiye: MARKIN, A.A.; SKRIPCHUK, V.S.; KHARITONOV,
Yu.A.; SELIUTIN, N. P.; GAVRILOVA, Ye. A.
GAVRILOVA, Ye.A.

Steelmaking from vanadium cast iron in converters with a top
oxygen blow. Stal' 21 no.12:1070-1074 D '61. (MIRA 14:12)
(Steel--Metallurgy)
(Oxygen--Industrial applications)

SELYUTIN, V.; LESNEKOV, N.; RAYEVICH, V.; GUREVICH, V.; KRAVTSEV, A.
(Bryansk); REVUNOV, M. (g. Ramenskoye, Moskovskoy oblasti);
NAZAROV, P.; RYKOV, Yu.; MIN, A.; IGNATENKO, N.

Letters on various subjects. Mest. prom. i khud. promys. 3
no.8:30-31 Ag '62. (MIRA 15:10)

1. Starshiy inzhener Glavbelmostproma, g. Minsk (for Selyutin).
2. Glavnyy inzhener shveytnogo kombinata "Pobeda", g. Ulan-Ude
(for Gurevich).

(Industries)

Name : SELYUTIN, V. A.

Remarks : V. A. SELYUTIN is co-author of the paper entitled "Magnetometric Equipment of the Third Soviet Artificial Earth Satellite" with L. N. ZHUZGOV and Shmay Shlemovich DOLGINOV, who is Head of the Magnetics Laboratory of the Institute of Terrestrial Magnetism, Ionosphere and Radio Wave Propagation of the USSR Academy of Sciences and a member of the Soviet scientific delegation to Washington.

Source : Background Material Release on Soviet Delegation and Authors of Soviet Papers by the Press Office of the XIIth International Astronautical Congress, Washington, D. C. October 2-6, 1961.

74 10

Abolitionist Paul Robeson

PHASE I BOOK INFORMATION BOB/74281

Искусственные спутники земли, 779. 4 (Artificial Earth Satellites, No. 4)
Moscow, 1960. 205 p. Russian slip inserted. 6,500 copies printed.

Mary. Ed.: L.V. Kuznetsov; Ed. of Publishing House: M.I. Pyrkkin; Tech. Ed.: Y.Y. Polonova.

REMARKS: This collection of articles is intended to disseminate data collected in investigations performed by means of artificial earth satellites.

CONTENTS: The collection consists of 15 articles dealing with scientific data on artificial earth satellites (AES) and cosmic probes. The topics discussed include measurements of the density of the upper atmosphere, motion of AES, measurements of electromagnetic and x-ray cosmic radiation, measurements of cosmic rays, electrical potential, and spectrum of positron ions. The collection is part of a series published regularly. References follow each article.

YERGEN, J.M. Determination of the Conditions of Illumination and the Time Intervals in Which the Dendritic Zones in Sunlight and in Shadow

The article discusses one of the possible methods of determining the conditions of illumination of satellites. The relative motion of the first, second, and third bodies A33 to the earth is briefly analyzed.

RELEVANT U.S. AIR PATENT. U.S. PAT. 2,811,400. Determining Orbital Parameters of Satellites According to Ground Measurements.

An abbreviated method of orbital parameter determination and forecasting of satellite motions is given. The method is based on data from the processing of optical and radiometrical observations.

PROCESSES OF CRITICAL AND MULTITECHNICAL OBSERVATIONS.

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45.479J.

Summary, A.I.T. Division of Disturbed Notice in Kepler's Problem

Sastry, K. P. Effects of the Shock Theory of Solid Bodies at High Velocities

Specifically, regarding the problem of shocks of meteorites at high velocity against the surface of a planet. This problem is related to the study of shocks of micrometeorites against the surface of Mars.

ELECTROLYTIC METHOD: Most of the problems of geophysics of the upper atmosphere have been solved by this method. It has made it possible to obtain reliable information on the electrical properties of the ionosphere, on the distribution of electric fields in the upper atmosphere, on the processes of particle formation and their transport at high velocities.

EXPOSURES AT HIGH VOLTAGES

[illegible]

Billings and Son - Inc. are disclosed.

Case 1:17-cv-00001-UNA Document 1-1 Filed 07/26/17 Page 1 of 1

SELYUTIN, V.I.

The MFGAS electrocentgenographic unit. Biol. tekhn.-ekon.
inform. Gos. nauch.-issl. inst. nauch. i tekhn. inform. 17
no.12:31-34 D '64. (MIRA 18:3)

DAVIDOV, A.V.; SELYUTIN, V.P.

Angular distribution of 100.09 Kev. gamma rays due to resonance scattering of W^{182} . Izv. AN SSSR. Ser. fiz. 27 no.7:875-877 '63. (MIRA 16:8)

1. Institut teoreticheskoy i eksperimental'noy fiziki Gosudarstvennogo komiteta po mirnomu ispol'zovaniyu atomnoy energii SSSR. (Tungsten isotopes) (Gamma-ray spectrometry)

SELYUTINA, L.G., Acad Agr Sci--(disc) "Effect of period ^{of feeding} ~~of feeding~~
with phosphorus, nitrogen, and potassium ^{upon} ~~the~~ the growth and yield
of corn." Mos, 1959. 13 p. (Mos Order of Lenin Agr Acad in
I.I. Tishchenov), 110 copies (ML,29-59, 130)

- 60 -

GULYAKIN, I.V., doktor biol. nauk, prof.; SELYUTINA, L.G., aspirant

Reaction of corn to periodic nitrogen, phosphorus, and potassium
application[with summary in English]. Izv. TSKhA no. 3:105-116 '58.
(MIRA 11:7)

Corn(Maize))
(Plants--Nutrition)

L 41859-65

ACCESSION NR AM5 006613

BOOK EXPLOITATION

S/ 5
B+/

Selyuzhenok, YE. F.

Winged ships; ships and seacraft on hydrofoils (Krylatyye suda; suda i korabli na poivodnykh kryl'yakh), Moscow, Voenizdat M-va obor. SSSR, 1964, 110 p. illus., biblio. 7,500 copies printed. Series note: Nauchno-populyarnaya biblioteka voyennogo izdatel'stva.

TOPIC TAGS: hydrofoil, water transportation

PURPOSE AND COVERAGE: This book deals with hydrofoil craft. It presents basic materials on the history, current state-of-the-art, and directions of further development of hydrofoil craft and presents basic information on the features of the operation of a hydrofoil. The book covers the advantages and disadvantages of certain hydrofoil arrangements (including automatically controlled foils). The views of foreign designers concerning the selection of hull and foils, engines and power plants for hydrofoil craft are analyzed. Systematized materials on the maneuverability and seaworthiness of hydrofoil craft are included. The materials collected in the book prove the effectiveness of hydrofoils for water transportation and indicate the more probable directions in the development of their properties. Basic attention is given to

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ACCESSION NR AM506613

the results of research and the recent achievements of foreign designers in the construction and design of hydrofoil craft. In addition, some data are reported on domestic hydrofoil craft. The book considers in detail the problems of the use of hydrofoil craft for military purposes abroad and the possibility of using hydrofoil craft as a combat vessel, rescue boats and high-speed troop landing vessels. The book is written in a popular style and is intended for the mass reader. It will be especially interesting to personnel in the Navy of the USSR.

TABLE OF CONTENTS:

Introduction --	1
Ch. I. Brief historical review and current state-of-the-art of hydrofoil craft --	6
Ch. II. The use of hydrofoil craft for military purposes --	29
Ch. III. Operational features of a hydrofoil. Resistance of hydrofoil craft --	40
Ch. IIII. Design features of hull and foils. Seaworthiness and maneuverability of hydrofoil craft --	60
Ch. V. Automatically controlled hydrofoils --	72
Ch. VI. Engines and power plants --	87
Card	2/3

L 41859-65

ACCESSION NR AM5006613

Ch. VII. Prospects for the further development of hydrofoil craft -- 100
Bibliography -- 105

SUBMITTED: 23 Jul 64

SUB CODE: GO, FR, MS

NO REF SOV: 006

OTHER: 032

ce
Card 3/3

YEGOROV, Ivan Timofeyevich; SOKOLOV, Vitaliy Timofeyevich;
VOYTKUNSKIY, Ya.I., kand. tekhn. nauk, retsenzent;
SELYUZHONOK, Ye.F., kand. tekhn. nauk, retsenzent;
RUSSETSKIY, A.A., kand. tekhn. nauk, nauchn. red.;
OSVENSKAYA, A.A., red.

[Hydrodynamics of high-speed vessels] Gidrodinamika
bystrokhodnykh sudov. Leningrad, Sudostroenie, 1965.
383 p. (MIRA 18:6)

9.2590

9.1300

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S/109/60/005/009/022/026

E140/E455

AUTHOR: Sem, M.F.

TITLE: 25 Waveguide Properties of a Double-Helix Delay System
for a Special Case

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol.5, No.9,
pp.1543-1545

TEXT: The special case considered is one in which the outer helix pitch angle is 90° (infinite anisotropic conductance in the direction of the axis). With suitable choice of parameters, such a system can be made dispersionless over a wide band of frequencies with a fairly high coupling impedance, suitable for wideband amplifiers and delay lines. Acknowledgment is made to V.S.Mikhalevskiy for his advice and interest. There are 2 figures and 3 references: 2 Soviet and 1 English.

ASSOCIATION: Rostovskiy-na-Donu gosudarstvennyy universitet
(Rostov-on-Don State University)

SUBMITTED: February 6, 1960

Card 1/1

SEM, Yu. A.

Expeditions of Onufrii Stepanov along the Amur and Ussuri Rivers.
Soob.DVFAN SSSR no. 15:125-129 '62. (MIRA 17:9)

1. Dal'nevostochnyy filial imeni Komarova Sibirskogo otdeleniya
AN SSSR.

· SEMADAM, Jeno

New aspects in testing welded settings by radioisotopes. Energia es
atom 13 no.1/2:75-78 Ja-F '60.

1. EROKAR Anragvizsgalo Osztaly.

25(6)
21(4)

HUN/8-60-1/2-26/33

AUTHOR: Semadam, Jenő

TITLE: New Aspects in Checking¹³ Welded Joints²⁴ With Radioactive Isotopes¹⁹

PERIODICAL: Energia és Atomtechnika, 1960, Nr 1-2, pp 75-78

ABSTRACT: The article deals with various aspects of the methods used by the Erőműjavító és Karbantartó Vállalat Anyagvizsgáló Osztálya (Quality-Control Department of the Power Plant Repair and Maintenance Enterprise) in checking welded joints with radioactive isotopes. The annotated drawing of a new isotope container (Figure 1) and tables to work out the radiation length (Tables 1 and 2) are included. Experiments have been carried out with a 9-mm-thick pipe, 720 mm in diameter. The joints have been checked from three and two isotope positions. The results of this and other experiments prove, that when the

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HUN/8-60-1/2-26/33

New Aspects in Checking Welded Joints With Radioactive Isotopes

thickness of the wall does not exceed one tenth of the diameter, the 2-section method meets the requirements. Experiments have also been carried out with an arrangement (Figure 2) where the counter could not have been affixed to the opposite side of the material. Two 2,000 x 1,000-mm sheets, each 4.5 mm thick, have been investigated for 10 minutes with 2.5-Curie Cs 137 isotope. The results of the investigation are shown in Figure 3. There are 2 tables, 2 figures and 1 graph.

ASSOCIATION: "ERŐKAR" Anyagvizsgáló Osztály (Quality-Control Department)

Card 2/2

SEMADENI, Irena; LAZARSKI, Stanislaw; WRONOWSKA, Barbara

Anatomy and topography of the submaxillary glands. (Casts).
Czas. stomat. 18 no.8/9:1081-1084 Ag-S '65.

1. Z Kliniki Chirurgii Stomatologicznej Pomorskiej AM w
Szczecinie (Kierownik: prof. dr. med. I. Semadeni).

SEMADENI, Irena; BUDZINSKA, Kazimiera; KANTOREK, Regina; SONTA, Krystyna

Critical evaluation of the etiopathogenesis and therapy of inflammation of cranio-facial bones. Roczn. pom. akad. med. Swierczewski. 7: 283-299 '61.

1. Z Kliniki Chirurgii Stomatologicznej Pomorskiej Akademii Medycznej
Kierownik: doc. dr med. Irena Semadeni.

(FACIAL BONES dis) (OSTEOMYELITIS)

SEMADENI, W.

Modern treatment of epilepsy with electroencephalographic control
of the disease. Polski tygod. lek. 5:8, 20 Feb. 50. p. 295-6

1. Of the Psychiatric Clinic of Warsaw University (Head--Prof.
L. Haudezman).

GLJL 19, 5, Nov., 1950

SEMADENI, Z.

POLAND/Magnetism - Ferromagnetism

F-4

Abs Jour : Ref Zhur - Fizika, No 5, 1959, No 10773

Author : Semadeni Z.

Inst : -

Title : Some Remarks on the Bloch's Theory of Spin Waves

Orig Pub : Acta phys. polon., 1956, 15, No 6, 423-428

Abstract : No abstract

Card : 1/1

40

48-5-15/23

SUBJECT: USSR/Physics of Magnetic Phenomena

AUTHOR: Semadeni, Z.

TITLE: Some Remarks as to Bloch's Theory of Spin Waves (Nekotoryye zamечaniya po povodu teorii spinovykh voln Blokha)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 1957, Vol 21, #6, pp 862-864 (USSR)

ABSTRACT: The author criticizes the Bloch method of deducing an approximate solution for the problem of electron interaction in an ideal crystal and attempts to show that such an approximate treatment contains two errors.

On the basis of his analysis the author asserts that a linear chain can be ferromagnetic as well as a plane lattice or a space lattice, because for all of these cases the spontaneous magnetization is finite, contrary to the Bloch conclusion.

No references are cited.

There is an editorial remark to the effect that the author's assertion as to the inaccuracy of Bloch's derivation does not seem to be sufficiently convincing.

Card 1/2

48-6-15/23

TITLE: Some Remarks as to Bloch's Theory of Spin Waves (Nekotoryye za-
mechaniya po povodu teorii spinovykh voln Blokha)

ASSOCIATION: Institute of Physics of the Polish Academy of Sciences

PRESENTED BY:

SUBMITTED: No date indicated

AVAILABLE: At the Library of Congress.

Card 2/2

SEMADENI, Z.

1-F/W

643:

Alexiewicz, A.; and Semadeni, Z. A generalization of two norm spaces. Linear functionals, Bull. Acad. Polon. Sci. Sér. Sci. Math. Astr. Phys. 6 (1958), 135-139.

The authors state the following special case of Grothendieck's theorem [N. Bourbaki, *Espaces vectoriels topologiques*, Actualités Sci. Ind. no. 1230, Hermann, Paris, 1955; MR 17, 1109; Chap. IV, Section 3, Ex. 3]: Let X be a locally convex topological vector space, and S a convex, équilibrée subset which is closed, bounded, and absorbing; then the completion of the dual space X' under the norm defined by the polar S° consists of those linear functionals on X which are continuous on S . The proof of this is given essentially in an accompanying paper [#6644 below].

As applications they show (A) that certain linear functionals on the Banach space of bounded continuous functions on a completely regular Hausdorff space are given by Borel measures, and (B) that a linear functional on a Banach space is continuous if and only if it is weakly continuous on the unit ball. The third, and principal, application is as follows. Suppose that X and S are as above; that in addition X is a vector lattice; S is normal in the sense that $x \in S$, $|y| \leq |x| \rightarrow y \in S$; and the topology of X has a neighborhood basis at 0 consisting of normal sets; that finally X_0 is a normal linear subspace. Then a linear functional on X_0 which is continuous on S can be extended to a linear functional on X with the same property.

S. Kaplan (Detroit, Mich.)

SEMADENI, Z.

"Linear functionals on two-norm spaces." In English

p. 121 (Studia Mathematica, Papers issued by the Polish Academy of Sciences,
Vol. 17, no. 2, 1958, Warsaw, Poland)

Monthly Index of East European Accessions (EEAI) LC, Vol. 8, No. 1, Jan. 59.

SEMADENI, Z.

Banach spaces nonisomorphic to their Cartesian squares. II. Bul Ac
Pol mat 8 no.2:81-84 '60. (EEAI 9:12)

1. Department of Mathematics, A. Mickiewicz University, Poznan.
Presented by W.Orlicz.
(Spaces, Generalized) (Topology)

SEMADENI, Z.

Embedding of two-norm spaces into the space of bounded continuous functions on a half-straight line. Bul Ac Pol mat 8 no.7:421-426 '60.

1. Institute of Mathematics, A. Mickiewicz University, Poznan.
Presented by W. Orlicz.

(Functions) (Spaces, Generalized)

SERNIENI, Z.

FRONT I BOOK EMPLOYMENT

ISL/5733

Państwowe Towarzystwo Matematyczne

Prace Matematyczne (Mathematical Transactions) Warszawa, Państwowe Wydawn.
1961, 1961, 146 p. (Series: Irs: Roczniki. Seria I., [no] 5)
1,150 copies printed.

Editorial Board: Chief Ed.: Włodzisław Orlicz; Deputy Chief Ed.: Marek
Sierak, Adam Bielecki, Witold Engelnowicz, Stanisław Golab, Jerzy Górski,
Stanisław Hartman; Secretary: Julian Musielak, Zbigniew Sernieni,
Krzysztof Tatarukiewicz.

REMARKS: This book is intended for mathematicians.

CONTENTS: This is a collection of 14 articles on the theory of functions, theory
of numbers, theory of series, functional analysis, differential equations, and
their applications to hydrodynamics and thermodynamics. No personalities are
mentioned. References follow each article.

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Polish Transactions

POL/5733

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SEMADENI, Z.

Extension of linear functionals in two-norm spaces. Bul Ac Pol mat 8
no.7:427-432 '60.

1. Department of Mathematics, A. Mickiewicz University, Poznan.
Presented by W. Orlicz.

(Functions) (Spaces, Generalized)

SEMADENI, Z. (Poznan)

Limit properties of ordered families of linear metric spaces.
Studia math 20 no.3:254-270 '61.

(Convergence) (Spaces, Generalized)

MUSIELAK, J.; SEMADENI, Z. (Poznan)

Some classes of Banach spaces depending on a parameter. Studia math
20 no.3:271-284 '61.

(Spaces, Generalized)

SEMADENI, Zbigniew

Two conventions of student mathematical associations (in Lublin and Poznan). Roczniki matematyczne 6 no.1:43-45 '62.

SEMADENI, Z. (Poznan)

Work methods of student mathematical associations. Rocznik
matem 6 no.1:47-58 '62.

SEHADENI, Z. (Poznan)

Generalization of Helly's theorems concerning the solvability of moment problems in Banach spaces. Roczniki matematyczne 5:125-135 '61.

SEMADENI, Z.

Functions with sets of points of discontinuity belonging to a fixed ideal. Fund math 52 no.1:25-39 '63.

1. Adam Mickiewicz University, Poznan, and University of Washington, Seattle, Wash.